

Project Delivery Method (PDM) Selection Guidance

Selection Checklist: Probable PDM



January 20, 2016
WSDOT Construction Division

Determining Probable PDM

Sequential tasks in the Checklist needed to
determine Probable PDM:

- Pre-Work
- Selection Process Requirements
- Selection Process Timing
- Selection Checklist
- Probable PDM Endorsement Process



Pre-Work Prior to Determining the Probable PDM

- Be thoroughly familiar with the Project Delivery Method Selection Guidance (PDMSG);
- PDM Attribute Comparison Spreadsheet in Appendix A – review the pros and cons of the three project delivery methods as they relate to different project attributes.
- Review Appendix B - Pre-Work
- Review Appendix C - How to use the Selection Checklist



Pre-Work

- Develop/review the initial Project Summary Package, including or expanding as follows:
 1. Project Description and attributes such as scope, schedule and budget.
 2. Project Commitments, Decisions and Assumptions.
 3. Project Goals and Project Constraints.
 4. Preliminary Risks
 5. Summarize the project information using the Project Delivery Description Worksheet or something similar.



Pre-Work

If the project contract cost is estimated to be less than \$2 Million* then additional Project specific Pre-work is unnecessary and the Project Engineer will only need to fill out Part Ia and IV of the Selection Checklist.

*This limitation relates to Design-Build Contracts so the estimated contract cost includes the Construction and Design costs included in a potential Design-Build contract



Project Commitments, Decisions and Assumptions

- Project Commitments: Know commitments and limitations to the project that may affect Project scope, risks, budget or schedule.
- Project Decisions: Decisions that cannot be changed due to Funding Source, Project Approval, Legislative Mandate or other sources that may affect Project scope, risks, budget or schedule.



Project Commitments, Decisions and Assumptions

- Project Assumptions: A deduction based on incomplete Project information that may affect Project scope, risks, budget or schedule if there are changes.



Questions?



Project Goals

- What additional Project Goals (if any) are needed on the Project Delivery Description Worksheet?
- What goals would contribute to project success?



Neutral Goals

- These are goals that have the same relative ability to be achieved, regardless of the PDM.



Prioritize Goals

- Use H (high), M (medium) and L(low) to indicate the relative importance of your goals to a successful project.
- Pick out the goal you consider highest and assign it a H;
- Evaluate each goal by comparing it to your highest;
- Continue until all goals are ranked.



Project Constraints

- Constraints differ from Project Goals in that they MUST be accomplished for project success;
- Evaluate the Highest Priority Project Goals ("H's") to determine if any are constraints;
- Project Commitments and Decisions may create "Constraints";
- Constraints are not scored, they are Pass/Fail when evaluating the optimal PDM for the Project.
- Constraint tend to be rare in this process.



Project Delivery Goals

- Project Delivery Goals are goals related to the characteristics of the PDMs.
- A Project Goal may be identical to a Project Delivery Goal or it may have a related goal determined by the Project Goal specifics, causes or risks;
- Project Delivery Goals are a refinement of the Project Goals and are used to evaluate the ability of the PDMs to meet the Project Goals based on the characteristics of the PDMs.



Project Risks

- Preliminary Risks should be identified in the Project Summary Package;
- Utilize the WSDOT Risk Assessment webpage and/or Appendix A.6- Typical Transportation Project Risks List, General Project Risks Checklist;



Questions?



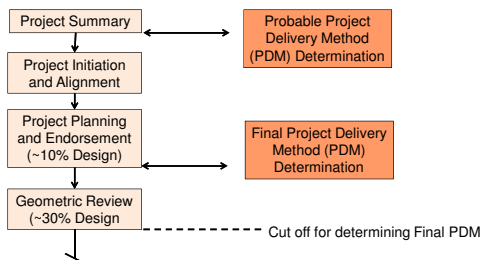
Probable PDM Selection Process Requirements

Estimated Project Cost	Required Process
• Less than \$2 Million (contract cost*)	Part I and IV of Selection Checklist
• Equal to or greater than \$2 Million* but less than \$25 Million	Part I, II, III and IV of Selection Checklist
• \$25 Million or greater, or • Parts II and III of the Checklist does not determine a Probable PDM	Selection Matrix

*This limitation relates to Design-Build Contracts so the estimated contract cost includes Construction and Design costs included in a potential Design-Build contract. Project Cost is used in all other cases.



Recommended Timing for Determining Probable PDM



Project Summary Package

- The Probable PDM determined by the Project Engineer shall be included in the Project Summary Package.



Participation

- Project Engineer/Project Design Lead or Program Management staff assigned the Project Summary of the project.
- Regional Project Development Engineer's Representative(s) assigned the Project Definition of the project.
- Construction Project Engineer will consult as appropriate, if assigned.



Probable PDM Determination Selection Checklist

- Review the Project Summary Package and other project information;
- Complete Selection Checklist Parts I & II;
- Identify Questions related to Goals and Constraints, if needed to clarify results;



Selection Checklist Part I

Appendix C – How to Complete the Selection Checklist

Project Name		Project 3 – Bridge Replacement and HOV Connection		<input type="checkbox"/> Probable PDM Date: 1/24/2015	
				<input type="checkbox"/> Final PDM Date:	
Project Status		<input checked="" type="checkbox"/> Project Summary <input type="checkbox"/> Initiation & Alignment <input type="checkbox"/> Planning & Endorsement ("10% Design") <input type="checkbox"/> Preliminary Review ("30% Design") <input type="checkbox"/> Preliminary Review ("30% Design")		<input type="checkbox"/> Change Road PDM Date:	
Cost		PART I: A. Is the Estimated Cost \$2 Million or less? <input type="checkbox"/> Yes <input type="checkbox"/> No Note: PCW does not allow use of DB for a project with estimated contract cost less than \$2 million.		Comment (IT6): This response indicates that all three PDM's are possible.	
A Tag answer above indicates Design-Build as the Project Delivery Method. Part (a): Probable Project Delivery Method Recommendation <input type="checkbox"/> DB Only <input type="checkbox"/> DB, DB or SCOM (Go to Part II) <input type="checkbox"/> Proposed Exception (Go to Part II) If DB Only is selected, skip Part I and go to Part IV.					
Part (b): Final Project Delivery Method Recommendation <input type="checkbox"/> DB Only <input type="checkbox"/> DB, DB or SCOM (Go to Part II) <input type="checkbox"/> Proposed Exception (Go to Part II) If DB Only is selected, skip Part I and go to Part IV.					
Part (c): Change Final Project Delivery Method Recommendation <input type="checkbox"/> DB Only <input type="checkbox"/> DB, DB or SCOM (Go to Part II) <input type="checkbox"/> Proposed Exception (Go to Part II) If DB Only is selected, skip Part I and go to Part IV.					
Cost		PART II: B. Is the Project Estimate \$10 Million or less? <input type="checkbox"/> Yes <input type="checkbox"/> No Note: Would not typically use SCOM for a project at \$10 Million or less.		Comment (IT7): This response indicates that all three PDM's are possible.	
A Tag answer above indicates SCOM is not a viable Project Delivery Method. Part (b): Probable Project Delivery Method Recommendation <input type="checkbox"/> DB or DB Only (Go to Part II) and cross out SCOM as a viable Option <input type="checkbox"/> DB, DB or SCOM (Go to Part I)					



Selection Checklist Part III

PART III: ROW REQUIREMENTS TO USE DESIGN-BUILD OR GENERAL CONTRACTOR/CONSTRUCTION MANAGER	
Design-Build <small>(RCW 47.121.700)</small>	<p>1. Is the preliminary Engineer's Estimate \$2 Million or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If the answer to 1 is Yes, continue with questions 1a through 1d.</p> <p>1a. Design-Build is not a viable option. <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>1b. Are construction activities highly specialized? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>1c. Is a DB approach critical in developing the construction methodology? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>1d. Does the project provide opportunity for greater innovation and efficiencies between the designer and builder? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>1e. Would use of DB result in significant reduction to the overall project schedule or critical milestones? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes was selected for any of questions 1a through 1d, Design-Build is a viable PDM option.</p>
GCM <small>(RCW 46.121.180)</small>	<p>2. Is CRAB approval to use GCM likely? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If the answer to 2 is Yes, continue with questions 2a through 2e.</p> <p>2a. General Contractor/Construction Manager is not a viable option. <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2b. Does the project involve complex scheduling, phasing or coordination? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2c. Does the project involve construction at an occupied facility which must continue to operate during construction? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2d. Is involvement of General Contractor/Construction Manager input during design critical for project success? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2e. Does the project encompass a complex or technical work environment? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2f. Does the project require specialized work on a building that has historic significance? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes was selected for any of questions 2a through 2e, General Contractor/Construction Manager is a viable PDM option.</p>

Comment (ST248): Although GCM is not indicated in Part III, completing this section to show that GCM is an option per the RCW's can be quickly done and is done for completeness and provides history if a change occurs to the recommended PDM.

Final Determination:
☐ DB is all three
☐ Selecting DB alone and 2 with GCM
☐ GCM in 2 with DB
 DB is indicated as the Probable PDM from Part III

Washington State Department of Transportation

Probable PDM Determination Selection Checklist

- If:
 - The Selection Checklist did not determine a Probable PDM;
 - The Project Engineer chooses additional evaluation;
 Then the Project Engineer will complete the Selection Matrix to determine the Probable PDM.

Washington State Department of Transportation

Probable PDM Approval Process

- If the Project contract cost is less than \$25 Million and complies with the guidance; then the Region reviews and endorses the Probable PDM.

Washington State Department of Transportation

Selection Checklist Part IV

Appendix C – How to Complete the Selection Checklist

PART IV: PROBABLE PROJECT DELIVERY METHOD	
<input type="checkbox"/> A Probable Delivery Method has been determined <input type="checkbox"/> DBB <input type="checkbox"/> DB <input type="checkbox"/> SCCM	
<input type="checkbox"/> More than one Viable Options have been determined and the Selection Matrix will be completed <input type="checkbox"/> DBB <input type="checkbox"/> DB <input type="checkbox"/> SCCM	
Preparer Name and Title	Authorizing Name and Title
Preparer Signature	Authorizing Signature
State Construction Office Endorsement	ASCE Signature
State Design Office Endorsement	ASDE Signature
Comment [ET229] No endorsement is required if an exception is requested. Otherwise, the Region determines who authorizes the Probable PDM when using the Selection Checklist. If the project budget is \$25 Million or greater, the checklist would not be used for Probable PDM.	
PART V: FINAL PROJECT DELIVERY METHOD	
<input type="checkbox"/> A Final Project Delivery Method has been determined through validation or revision of this Checklist <input type="checkbox"/> DBB <input type="checkbox"/> DB <input type="checkbox"/> SCCM	
<input type="checkbox"/> More than one Viable Options have been determined and the Selection Matrix and/or Workshop will be completed	
Comment [ET269] ASCE and ASDE endorsement is not required unless an exception is requested. If the project budget is \$25 Million or greater, the checklist would not be used for Probable PDM.	



Probable PDM Approval Process

- If an exception to the guidance is requested, then;
 - The Regional Administrator endorses the Probable PDM and submits it to HQ; and
 - The Assistant State Design Engineer and Assistant State Construction Engineer also endorse the Probable PDM.
 - If the ASCE/ASDE do not endorse the Probable PDM, the Region will provide the additional information needed to gain the ASCE and ASDE endorsement.



Questions?